

Work Assignment Form, (WebForms v1.0)

I. Title: Method 23 Revisions
Contractor Name: Eastern Research Group
Contract #: EP-D-11-006
Work Assignment#: 3-04

II. Work Assignment Manager (WAM):

Jason M DeWees
U.S. EPA
Office of Air Quality Planning and Standards
Air Quality Assessment Division
Measurement Technology Group (E141-03)
Research Triangle Park, NC 27711

III. Level of Effort:

Level of Effort:	130 hours (for preparation of work plan and initial work)
Duration	12 Months
Completion Date:	3/31/14

IV. Background:

The Clean Air Act (CAA) establishes a national framework for air quality management in the United States. The 1990 amendments to the CAA, while leaving intact the basic structure of this program, mandated both new Federal programs for controlling air pollution and major philosophical changes in some of the existing programs. Notable new programs were the addition of a technology-based approach for controlling air toxics under Title III, the Title IV requirements for the reduction in acid deposition, and the addition of a federally mandated operating permits program under Title V.

The work to be performed under this work assignment supports to the U.S. Environmental Protection Agency (EPA), Office of Air Quality Planning and Standards (OAQPS), in developing emissions standards for new source performance standards (NSPS); national emission standards for hazardous air pollutants (NESHAP) for source categories; and developing standardized prescriptive procedures to characterize emissions from a wide spectrum of controlled and uncontrolled sources (also known as source characterization); and in developing, evaluating and promoting compliance assurance monitoring methods.

As part of effort under this work assignment, the contractor may evaluate alternative test methods and monitoring procedures; develop and promote the proper and consistent application of stationary source and ambient air emissions test and monitoring methods in the development and enforcement of emissions control programs nationally; and develop, evaluate, and demonstrate new emissions measurement technology.

The goal of the tasks in this work assignment is to limit risks to the public from exposure to 188 hazardous air pollutants (HAPs) that are listed in the CAA. The maximum achievable control technology (MACT) standards have been published for almost all source categories. EPA continues to revise MACT standards under 40 CFR Part 63 and Section 129 standards under Part 60 and to include residual risk standards which are designed to reduce any unacceptable public health risks from major sources. Stationary facilities including refineries and chemical industries include both ducted sources and area or fugitive sources that contribute to the mixture of toxic air pollutants found in urban air sheds.

V. Description and Tasks:

Task #1: Work Plan

The Contractor will initiate and coordinate the technical activities of the staff assigned to this project. The contractor shall prepare a work plan describing the technical approach for each of the tasks in this work assignment. In addition the contractor shall provide a cost and labor estimate for the total work assignment and the cost and labor required to complete each of the work assignment tasks. The contractor shall plan for monthly technical conference calls to brief the WAM and EPA team on progress or issues to complete each task. The Contractor shall provide monthly reports to the EPA contracting officer representative (COR) for this work assignment (WA). Monthly progress reports are required by the contract deliverables and must contain a summary of technical progress and work assignment resource use (labor and cost) information as required by the contract.

Task #2: Draft White Paper on Revisions to Method 23

The Contractor shall, under technical direction from the EPA WAM, develop a white paper supported by current scientific literature on potential revisions to Method 23. This white paper should include the following topics:

- Integration of analysis of PCBs and PAHs into a unified HRGC/HRMS method
- Integration of “State of the Art” for HRMS laboratories
 - Spiking Levels
 - Isotope Selection (to take full advantage of the additional compounds available since Method 23 was last revised)
 - Calibration/Compound Identification
 - Uncertainty Analysis
 - Use of Performance Based Method Approach (to allow maximum flexibility while ensuring quality of data)
- Integration of “EMPC” or a derivative approach
- Detection Limit determination
- Integration of other methodologies such as CARB Method 428/429, SW-846 Method 8290A, etc

The Contractor shall transmit monthly interim drafts of the white paper and hold biweekly calls with EPA. The final deliverable will be a draft white paper outlining the potential changes with draft regulatory text or research required for the topic identified.

VI. QA Requirements:

No EDOs in this current WA

VII. Deliverables:

The Contractor shall adhere to the following schedule:

Task	Deliverable	Delivery Schedule
1	Work Plan	20 days after effective date of WA
2	Intermediate Drafts Final Draft White Paper	Every month after effective date of WA 6 months after effective date of WA

VIII. Reporting Requirements:

The Contractor shall provide monthly progress reports in accordance with the terms of the contract. The Contractor shall submit work products in electronic as well as hard copy form. In addition, the Contractor shall deliver to the WAM each draft and final report in electronic format that is readable by windows-based word-processing (Microsoft Word 2007), graphics (Microsoft PowerPoint 2007), spreadsheet (Excel 2007), and database (Access 2007) programs. The Contractor shall also provide electronic copies of reports in PDF format.